## Immunotag<sup>™</sup> Rb (phospho Thr826) Polyclonal Antibody

Antibody Specification	
Catalog No.	ITP0556
Product Description	Immunotag™ Rb (phospho Thr826) Polyclonal Antibody
Size	50 μg, 100 μg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Rb (Thr826)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,IF,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human Rb (phospho Thr826)
Specificity	Phospho-Rb (T826) Polyclonal Antibody detects endogenous levels of Rb protein only when phosphorylated at T826.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	RB1
Accession No.	P06400 P13405 P33568
Alternate Names	RB1; Retinoblastoma-associated protein; p105-Rb; pRb; Rb; pp110

nega	ranscriptional corepressor 1(RB1) Homo sapiens The protein encoded by this gene is a
Description chroi	ative regulator of the cell cycle and was the first tumor suppressor gene found. The oded protein also stabilizes constitutive heterochromatin to maintain the overall matin structure. The active, hypophosphorylated form of the protein binds transcription or E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), der cancer, and osteogenic sarcoma. [provided by RefSeq, Jul 2008],
Cell Pathway/ Category	cell pathway, Cell_Cycle_G1S,Cell_Cycle_G2M_DNA, Protein_Acetylation
Protein Expression Brain	n,Carcinoma,Cervix,Peripheral blood,Testis,
	matin,nucleus,nucleoplasm,spindle,cyclin/CDK positive transcription elongation factor plex,SWI/SNF complex,PML body,Rb-E2F complex,
are a child that represent the following support of the following suppo	ase:Defects in RB1 are a cause of bladder cancer [MIM:109800], disease:Defects in RB1 are the cause of hood cancer retinoblastoma (RB) [MIM:180200]. RB is a congenital malignant tumor arises from the nuclear layers of the retina. It occurs in about 1:20'000 live births and esents about 2% of childhood malignancies. It is bilateral in about 30% of cases. Bugh most RB appear sporadically, about 20% are transmitted as an autosomal inant trait with incomplete penetrance. The diagnosis is usually made before the age of ars when strabismus or a gray to yellow reflex from pupil ("cat eye") is stigated., function:Key regulator of entry into cell division that acts as a tumor ressor. Acts as a transcription repressor of E2F1 target genes. The exphosphorylated, active form of RB1 interacts with E2F1 and represses its transcription rity, leading to cell cycle arrest. Directly involved in heterochromatin formation by itaining overall chromatin structure and, in particular, that of constitutive rochromatin by stabilizing histone methylation. Recruits and targets histone hyltransferases SUV39H1, SUV420H1 and SUV420H2, leading to epigenetic scriptional repression. Controls histone H4 'Lys-20' trimethylation. Inhibits the intrinsic se activity of TAF1. In case of viral infections, interactions with SV40 large T antigen, E7 protein or adenovirus E1A protein induce the disassembly of RB1-E2F1 complex eby disrupting RB1's activity.,online information:RB1 mutation db,online mation:Retinoblastoma protein entry,PTM:Phosphorylated in G1, thereby releasing which is then able to activate cell growth. Dephosphorylated at the late M phase. Olarge T antigen, HPV E7 and adenovirus E1A bind to the underphosphorylated, active of pRb.,similarity:Belongs to the retinoblastoma protein (RB) family.,subunit:Interacts ATAD5 (By similarity). The hypophosphorylated form interacts with and sequesters the transcription factor. The unphosphorylated form interacts with ARID3B, KDM5A, 1911, MJD2A/JHDM3A and THOC1. Interacts with the N-terminal domain of
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